## Amendments to the Claims:

This listing of claims will replace all prior versions, and listings, of claims in the application:

## **Listing of Claims:**

Claim 1. (Currently Amended) A distributed power supply arrangement comprising:

a plurality of power sources for supplying power to a plurality of loads via a power distribution network, the power sources and the loads being connected to the power distribution network whereby the power sources are coupled to the loads via respective resistances of the power distribution network,

the arrangement further comprising at least one voltage sensor for sensing power supply voltage at at least one point in the power distribution network, wherein each of the power sources is responsive to the sensed power supply voltage sensed by each of the at least one voltage sensor for supplying a regulated current or a regulated power to the power distribution network[[.]], the arrangement comprising a plurality of said voltage sensors for sensing power supply voltages at a plurality of points in the power distribution network, whereby each of the power sources is responsive to the power supply voltages sensed at the plurality of points in the power distribution network.

Claim 2. (Cancelled)

Claim 3. (Currently Amended) An arrangement as claimed in elaim 2 claim 1 wherein each of the power sources is responsive to an average of the sensed power supply voltages sensed at the plurality of points in the power distribution network for supplying said regulated current or regulated power to the power distribution network.

Claim 4. (Original) An arrangement as claimed in claim 1 wherein the power sources comprise regulated current sources.

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Claim 5. (Previously Presented) An arrangement as claimed in claim 4 wherein the power sources are arranged for supplying regulated currents with different relative weights to the power distribution network.

Claim 6. (Original) An arrangement as claimed in claim 1 wherein the power distribution network comprises power and ground planes of a circuit card on which the loads are provided.

Claim 7. (Original) An arrangement as claimed in claim 6 wherein the plurality of power sources are arranged on the circuit card.

Claim 8. (Cancelled)

Claim 9. (Currently Amended) A method of regulating voltage in a power distribution network including a plurality of power sources for supplying power to a plurality of loads, comprising the steps of:

sensing voltage of the supplied power at at least one point in the power distribution network; and

regulating current supplied by each of the plurality of power sources to the power distribution network in dependence upon the sensed voltage sensed at each of the at least one point in the power distribution network[[.]].

wherein the voltage of the supplied power is sensed at a plurality of points in the power distribution network, and the current supplied by each of the plurality of power sources is regulated in dependence upon an average of the sensed voltages sensed at the plurality of points in the power distribution network.

Claim 10. (Cancelled)

Claim 11. (Currently Amended) A method as claimed in claim 10 claim 9 wherein the currents supplied by the plurality of power sources are regulated to have different relative weights.

Claim 12. (Cancelled)

Claim 13. (Original) A method as claimed in claim 9 applied to a circuit card, wherein the loads comprise integrated circuits on the circuit card and the plurality of power sources comprise switch mode power converters on the circuit card.

Claim 14. (Original) A method as claimed in claim 13 wherein the power distribution network comprises power and ground planes of the circuit card.

Claim 15. (Currently Amended) A power supply arrangement comprising:

a plurality of power sources each arranged for supplying power via a power distribution network to each of a plurality of loads, and

at least one power supply voltage sensor for sensing a power supply voltage at a respective point in the power distribution network for regulating the power supplied to the power distribution network from the plurality of power sources, each of the power sources being responsive to the sensed power supply voltage sensed by each of the at least one power supply voltage sensor for supplying a regulated power to the power distribution network[[.]].

the power supply arrangement comprising a plurality of said power supply voltage sensors each for sensing said power supply voltage at a respective one of a plurality of points in the power distribution network, whereby each of the power sources is responsive to the power supply voltages sensed at the plurality of points in the power distribution network.

Claim 16. (Original) A power supply arrangement as claimed in claim 15 wherein the power sources comprise regulated current sources.

Claims 17 to 20. (Cancelled)